

In the United States Patent and Trademark Office

Serial Number: 10/728803
Application. Filed: December 8, 2003
Applicant: Kia Silverbrook
Application Title: THERMAL INK JET PRINthead WITH LOW RESISTANCE
ELECTRODES FOR HEATERS
Examiner/GAU: Geoffrey Mruk 2853
Dated June 13, 2007
At: Balmain, NSW
Docket No. MTB12US

RENEWED PETITION TO WITHDRAW ABANDONMENT

(UNDER 37 CFR 1.181(a))

Commissioner for Patents
Washington, District of Columbia 20231

Dear Sir:

In response to the Dismissed Petition mailed May 24 2007, the Applicant submits the following:

The Notice of Abandonment states that a reply to the Office Action mailed on October 13, 2006 was not received by the USPTO. We maintain that the reply was sent in response to the Office Action mailed on October 26, 2006. We therefore petition the commissioner to reconsider our request to withdraw abandonment.

The Applicant encloses:

- A copy of the Transaction History from PAIR, showing the following entry:
"Workflow – Request for RCE – Begin" dated October 30, 2006.
- A copy of the original return receipt postcard (original was returned to the USPTO with our reply mailed May 1, 2007 and is therefore no longer accessible) which was sent with the response (RCE including IDS and cheque) and that was received by the USPTO on November 7, 2006. Should the copy of the Return Receipt Postcard also be mislaid, the Applicant submits that the Bar Code numbers shown on the Return Receipt Postcard are : 16698 U.S.P.T.O and 103006.
- A copy of the response sent (RCE including IDS and cheque).

The Applicant submits that the response to the Office Action mailed October 13, 2006 was sent to and received by the USPTO, and respectfully requests favourable consideration of this petition.

Very respectfully,

Applicant:



Kia Silverbrook

C/o:

Silverbrook Research Pty Ltd
393 Darling Street
Balmain NSW 2041, Australia

Email:

kia.silverbrook@silverbrookresearch.com

Telephone:

+612 9818 6633

Facsimile:

+61 2 9555 7762

10/728,803	Thermal ink jet printhead with low resistance electrodes for heaters	04-30-2007::18:47:17
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Transaction History

Date	Transaction Description
03-30-2007	Mail Abandonment for Failure to Respond to Office Action
03-28-2007	Abandonment for Failure to Respond to Office Action
10-30-2006	Workflow - Request for RCE - Begin
10-13-2006	Mail Advisory Action (PTOL - 303)
10-11-2006	Advisory Action (PTOL-303)
10-04-2006	Date Forwarded to Examiner
10-02-2006	Amendment after Final Rejection
08-22-2006	Mail Final Rejection (PTOL - 326)
08-19-2006	Final Rejection
06-16-2006	Date Forwarded to Examiner
06-08-2006	Response after Non-Final Action
04-04-2006	Mail Non-Final Rejection
03-31-2006	Non-Final Rejection
01-23-2006	Information Disclosure Statement considered
12-16-2004	Information Disclosure Statement considered
01-30-2006	Date Forwarded to Examiner
01-23-2006	Response to Election / Restriction Filed
01-23-2006	Information Disclosure Statement (IDS) Filed
01-23-2006	Request for Extension of Time - Granted
12-01-2005	Mail Restriction Requirement
11-28-2005	Requirement for Restriction / Election
06-28-2005	Case Docketed to Examiner in GAU
12-16-2004	Reference capture on IDS
12-16-2004	Information Disclosure Statement (IDS) Filed
06-14-2004	Case Docketed to Examiner in GAU
04-20-2004	IFW TSS Processing by Tech Center Complete
04-20-2004	Case Docketed to Examiner in GAU
01-20-2004	Application Return from OIPE
01-20-2004	Application Return TO OIPE
01-16-2004	Application Return from OIPE
01-16-2004	Application Return TO OIPE
01-16-2004	Application Dispatched from OIPE
01-20-2004	Application Is Now Complete
01-12-2004	Cleared by OIPE CSR
12-27-2003	IFW Scan & PACR Auto Security Review
12-08-2003	Initial Exam Team nn

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IBRS/CCRI NO. 2072041

Received by Silverbrook
Research Pty Ltd

- 7 NOV 2006

Due Date.....

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PO Box 207
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REPLY PAID / REPOSE PAYEE
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Silverbrook Research Pty Ltd
Reply Paid 207
BALMAIN NSW 2041
AUSTRALIA

Express Mail No: _____ Mailed: October 26, 2006
COMMISSIONER FOR PATENTS
P.O. Box 1450
Arlington, VA 22313-1450 Docket #: TTB/2US

Inventors: Kia Silverbrook
Title: Thermal Ink Jet Printhead with Low Resistance Electrodes for Heaters
Serial No: 10/428803
Filing Date: December 8, 2003
Enclosed:

16698 U.S. PTO
103008

- | | | | |
|---------------------------------------|---------------------------------------|---------------------------------------|----------------------------------|
| <input checked="" type="checkbox"/> 1 | Return Receipt Postcard; | <input checked="" type="checkbox"/> 1 | Bank draft/Credit card; |
| <input checked="" type="checkbox"/> 1 | Transmittal Form; (RCE) | <input type="checkbox"/> | Terminal disclaimer; |
| <input type="checkbox"/> | Response; | <input type="checkbox"/> | No of Cited documents; |
| <input checked="" type="checkbox"/> 3 | IDS; | <input type="checkbox"/> | Terminal disclaimer; |
| <input type="checkbox"/> | Extension of time; | <input type="checkbox"/> | Pages of Claims [Pgs - _____]; |
| <input type="checkbox"/> | Pages of Specification [Pgs _____]; | <input type="checkbox"/> | Pages of Figures [Figs _____]; |
| <input type="checkbox"/> | Pages of Abstract [Pg _____]; | <input type="checkbox"/> | Pages of Application Data Sheet; |
| <input type="checkbox"/> | Pages of Executed Oath/Declaration ; | <input type="checkbox"/> | Other; |
| <input type="checkbox"/> | Petition; | | |

COPY

PTO/SB/30 (04-05)

Approved for use through 07/31/2006. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Request for Continued Examination (RCE) Transmittal

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	10/728803
Filing Date	8 December 2003
First Named Inventor	Kia Silverbrook
Art Unit	2853
Examiner Name	Geoffrey Mruk
Attorney Docket Number	MTB12US

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

- a. ☒ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ii. ☐ Other _____

- b. ☒ Enclosed

- i. ☐ Amendment/Reply
- ii. ☐ Affidavit(s)/ Declaration(s)

- iii. ☒ Information Disclosure Statement (IDS)

- iv. ☐ Other _____

2. Miscellaneous

- a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(l) required)
- b. ☐ Other _____

3. Fees

- The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
- The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to Deposit Account No. _____. I have enclosed a duplicate copy of this sheet.


- a. ☐
- i. ☐ RCE fee required under 37 CFR 1.17(e)
- ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17)
- iii. ☐ Other _____

- b. ☒ Check in the amount of \$ 970.00 _____ enclosed

- c. ☐ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature		Date	October 26, 2006
Name (Print/Type)	Kia Silverbrook	Registration No.	

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature		Date	
Name (Print/Type)			

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-210951

(43)Date of publication of application : 31.07.2002

(51)Int.Cl.

B41J 2/015

B41J 2/16

B81B 3/00

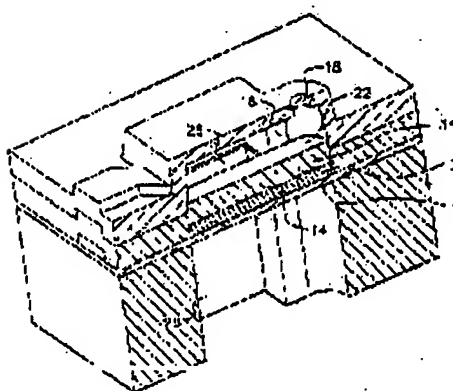
(21)Application number : 2001-355056 (71)Applicant : EASTMAN KODAK CO

(22)Date of filing : 20.11.2001 (72)Inventor : JARROLD GREGORY S
LEBENS JOHN A

(30)Priority

Priority number : 2000 726945 Priority date : 30.11.2000 Priority country : US

(54) THERMAL ACTUATOR



(57)Abstract:

PROBLEM TO BE SOLVED: To provide a thermal actuator for a micro mechanical device having an actuator beam improved in the degree of motion.

SOLUTION: The thermal actuator is taught for the micro electromechanical device. The thermal actuator has a base element, and a cantilevered element extending from the base element and normally present at a first position. The cantilevered element includes a first layer formed of a dielectric material having a low thermal coefficient of expansion, and a second layer attached to the first layer and comprising an intermetallic compound or titanium aluminide. A pair of electrodes are connected to the second layer so as to raise the temperature of the second layer by flowing a current to the second layer. The cantilevered element is displaced to a second position as a result of the temperature rise of the

second layer, and returns to the first position when the current flowing to the second layer stops and the temperature of the second layer decreases. The thermal actuator has a specific application in an ink jet device in which a series of the ink jet devices form an ink jet printing head.

LEGAL STATUS

[Date of request for examination]

21.10.2004

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-060955

(43)Date of publication of application : 07.03.1995

(51)Int.Cl.

B41J 2/01

B41J 2/175

(21)Application number : 05-214031

(71)Applicant : CANON INC

(22)Date of filing : 30.08.1993

(72)Inventor : ASAI AKIRA

(54) INK JET RECORDING HEAD AND INK JET RECORDER EQUIPPED WITH THE RECORDING HEAD

$$i(r) = \frac{I}{\theta r d(r)}$$

$$q(r) = i(r)^2 \rho d(r)$$

$$q(r) = \frac{I^2 \rho}{\theta^2 r^2 d(r)}$$

(57)Abstract:

PURPOSE: To obtain a recording head having a novel heating element wherein heating distribution on a surface of a resistor is equalized and its recorder by a method wherein a heating resistor has a heating part of an approximately circularly annular or fan-like annular surface shape, and its thickness is varied inversely proportional to a distance in a radial direction from a central point of the surface shape.

CONSTITUTION: When voltage is impressed by making a current (I) flow radially along a radial direction of a heating resistor, a thickness d (r) of a heating part of the heating resistor is varied inversely proportional to a radial distance (r) from a center of a surface shape. Thereby, a current density i (r) at any point on the heating part at a radial distance (r) apart from the center comes to be as given by the formula (I). In the formula θ is an angle of a fan-like annulus (2π in

the case of a circular annulus). Relation between the resistivity (ρ) of the resistor and a heating value q (r) per unit time unit area is as given by the formula II. Therefore, the formula III is obtained.

LEGAL STATUS

[Date of request for examination]

30.06.1999

[Patent number]

3157964

[Date of registration]

09.02.2001

COPY

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USSN 10/728803

Our docket no: TTB12US